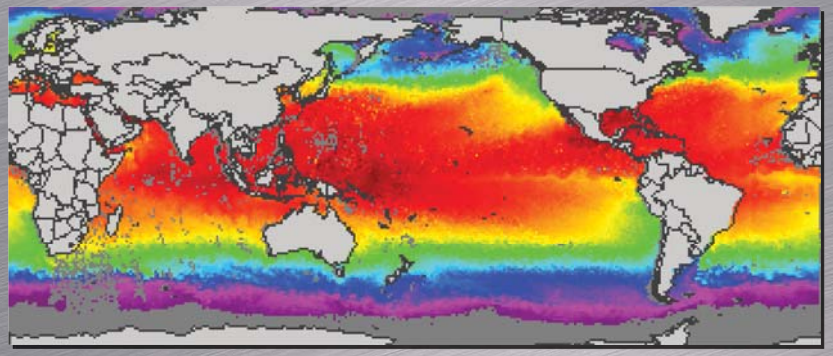
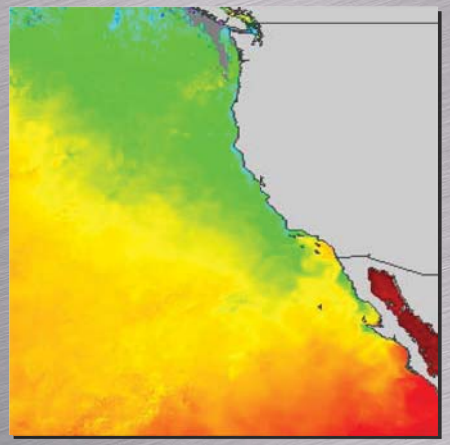
WMS



http://coastwatch.pfeg.noaa.gov/erddap/wms/erdBAssta5day/request?service=WMS&version=1.3.0&request=GetMap&bbox=0,-75,360,75&crs=EPSG:4326&width=360&height=150&bgcolor=0x808080&layers=Land,erdBAssta5day:sst,Coastlines,Nations&styles=&format=image/png

WMS



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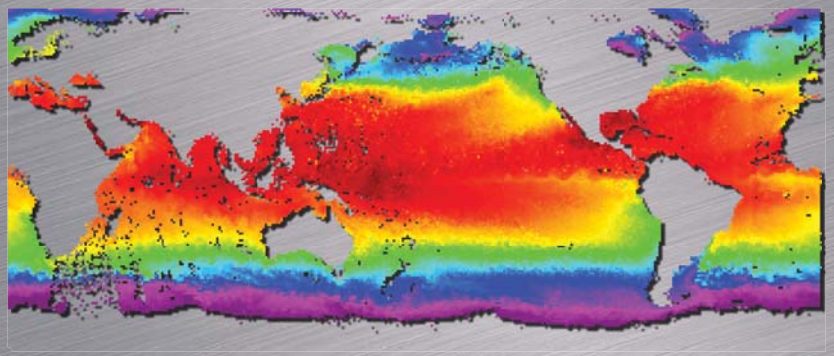
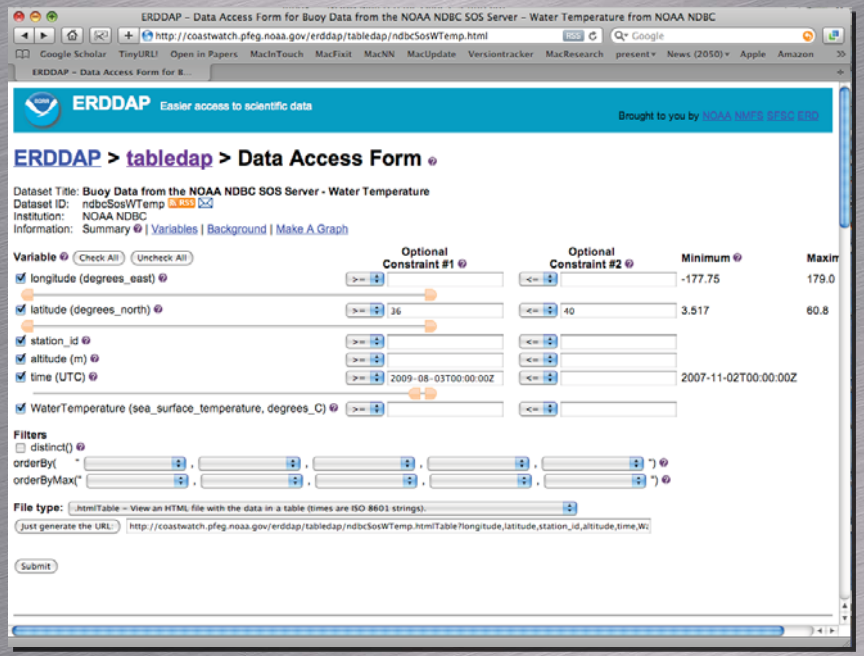
WMS (transparent)

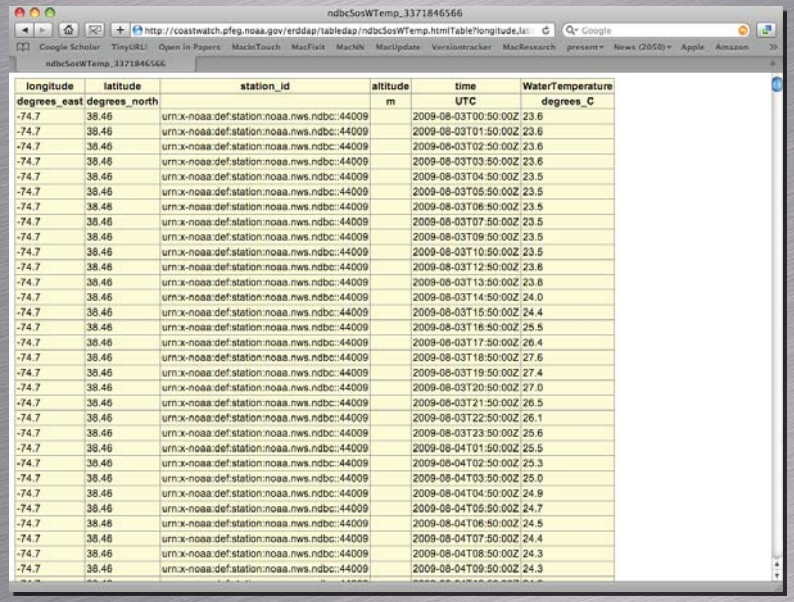


http://coastwatch.pfeg.noaa.gov/erddap/wms/erdBAssta5day/request?service=WMS&version=1.3.0&request=GetMap&bbox=0,-75,360,75&crs=EPSG:4326&width=360&height=150&bgcolor=0x808080&layers=erdBAssta5day:sst&styles=&format=image/png&transparent=TRUE

SOS Client



SOS Client



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degrees_east	degrees_north		m	UTC	degrees_C
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-74.7	38.46	urn:x-noaa:def:station:noaa.nws.ndbc::44009		2009-08-03T02:50:00Z	23.6
-74.7	38.46	urn:x-noaa:def:station:noaa.nws.ndbc::44009		2009-08-03T03:50:00Z	23.6
-74.7	38.46	urn:x-noaa:def:station:noaa.nws.ndbc::44009		2009-08-03T04:50:00Z	23.5
-74.7	38.46	urn:x-noaa:def:station:noaa.nws.ndbc::44009		2009-08-03T05:50:00Z	23.5
-74.7	38.46	urn:x-noaa:def:station:noaa.nws.ndbc::44009		2009-08-03T06:50:00Z	23.5
-74.7	38.46	urn:x-noaa:def:station:noaa.nws.ndbc::44009		2009-08-03T07:50:00Z	23.5
-74.7	38.46	urn:x-noaa:def:station:noaa.nws.ndbc::44009		2009-08-03T09:50:00Z	23.5
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-74.7	38.46	urn:x-noaa:def:station:noaa.nws.ndbc::44009		2009-08-04T03:50:00Z	25.0
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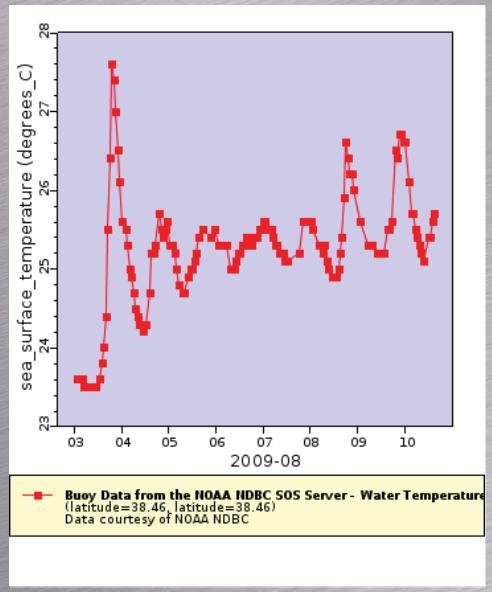
SOS Client



SOS Server

- can respond to GetCapabilities and GetObservation requests
  - some of the details need to be changed
- currently just returns the standard SOS XML
  - will add support for lots of types of responses (e.g., .csv, .tsv, .htmlTable)

SOS Server


```
<?xml version="1.0"?>
<Capabilities
 xmlns:gml="http://www.opengis.net/gml/"
 xmlns:xlink="http://www.w3.org/1999/xlink"
 xmlns:swe="http://www.opengis.net/swe/1.0.1"
 xmlns:om="http://www.opengis.net/om/1.0"
 xmlns="http://www.opengis.net/sos/1.0"
 xmlns:sos="http://www.opengis.net/sos/1.0"
 xmlns:ows="http://www.opengis.net/ows/1.1"
 xmlns:ogc="http://www.opengis.net/ogc"
 xmlns:tml="http://www.opengis.net/tml"
 xmlns:sml="http://www.opengis.net/sensorML/1.0.1"
 xmlns:myorg="http://www.myorg.org/features" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://www.opengis.net/sos/1.0 http://schemas.opengis.net/sos/1.0.0/sosAll.xsd"
 version="1.0.0">
<!-- This is a PROTOTYPE service.  The information in this response is NOT complete. -->
 <ows:ServiceIdentification>
  <ows:Title>SOS for Buoy Data from the NOAA NDBC SOS Server - Currents</ows:Title>
   <ows:Abstract>The NOAA NDBC SOS server is part of the IOOS DIF SOS Project.  The stations in this dataset have currents data.
  </ows:Keywords>
  <ows:ServiceType codeSpace="http://opengeospatial.net">OGC:SOS</ows:ServiceType>
   <ows:ServiceTypeVersion>1.0.0</ows:ServiceTypeVersion>
   <ows:Fees>NONE</ows:Fees>
   <ows:AccessConstraints>NONE</ows:AccessConstraints>
 </ows:ServiceIdentification>
 <ows:ServiceProvider>
   <ows:ProviderName>NOAA Environmental Research Division</ows:ProviderName>
   <ows:ProviderSite xlink:href="http://127.0.0.1:8080/cwexperimental"/>
   <ows:ServiceContact>
     <ows:IndividualName>Bob Simons</ows:IndividualName>
     <ows:ContactInfo>
       <ows:Phone>
         <ows:Voice>831-658-3205</ows:Voice>
       </ows:Phone>
       <ows:Address>
         <ows:DeliveryPoint>1352 Lighthouse Ave.</ows:DeliveryPoint>
         <ows:City>Pacific Grove</ows:City>
         <ows:AdministrativeArea>CA</ows:AdministrativeArea>
         <ows:PostalCode>93950</ows:PostalCode>
         <ows:Country>USA</ows:Country>
<ows:ElectronicMailAddress>bob.simons@noaa.gov</ows:ElectronicMailAddress>
       </ows:Address>
     </ows:ContactInfo>
   </ows:ServiceContact>
 </ows:ServiceProvider>
 <ows:OperationsMetadata>
   <ows:Operation name="GetCapabilities">
     <ows:DCP>
       <ows:HTTP>
         <ows:Get xlink:href="http://127.0.0.1:8080/cwexperimental/sos/ndbcSosCurrents/server"/>
       </ows:HTTP>
     </ows:DCP>
     <ows:Parameter name="Sections">
```